

7. Butt-joining clinch method comprising:

In two abutting metal strips punching a substantially rectangular slot into both abutments,
using one knock-out-slug from said punching,
re-inserting said slug into the center of said abutment,

5 clinching it into said slots thereby securely joining said strips.

8. Butt-joining clinch method as defined in claim 7 wherein said slots in both said abutments
is keystone shaped instead of rectangular.

9. Butt-joining clinch method as defined in claim 7 wherein said slots in both said abutments
have two rounded edges produced by both a punch and a die.

10 10. Butt-joining clinch method as defined in claim 7 wherein said strips
are of other material than metal.

11. Butt-joining clinch method as defined in claim 7 wherein a plurality of slots is used.

12. Butt-joining clinch method as defined in claim 7 wherein said clinching height
is flush or slightly below the surface of said strip

15

Abstract.

An in-expensive method to join metals or other materials by a slug that is compressed or clinched
into a punched or machined substantially rectangular slot in two adjoining pieces.

The final assembly is flat and of the same thickness as the clinched material.

It could be used to advantage in a mitered frame type assembly.